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Figure 1

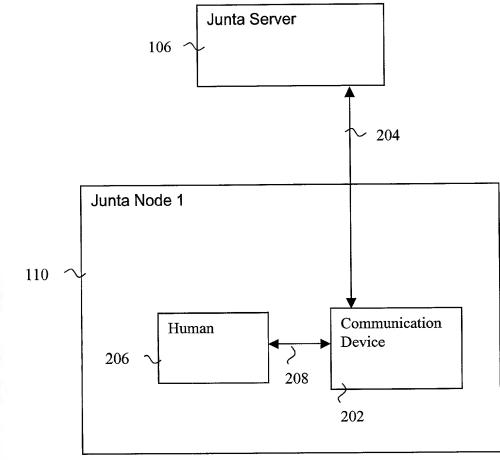


Figure 2

## Figure 3a

```
302 \(^/\)* Defines the various types of input */
         typedef enum {
             TEXT = 0x1,
             SPEECH = 0x2,
         } junta input domains t;
304 \sim /* Defines the various output types */
         typedef enum {
             TEXT = 0x1,
             NUMBERS = 0x2,
             TUPLES = 0x4,
         } junta output domains t;
306 \sim /* A function maps an input to an output */
         typedef struct {
             junta_input_domains_t input;
             junta output domains toutput;
         } junta_function_s;
308\,{\sim}\, /* Create a new problem on the Junta Computer */
         junta_return_t junta_new_problem(junta_function_s function_type,
                            junta_id *problem_id);
310 \( \sim /* \) The various attributes we might want to set on a problem */
         typedef enum {
              ACCURACY,
              SECURITY,
              TIMEOUT,
              MAXIMUM_TIME,
             COST PER TASK,
              MAXIMUM_COST,
         } junta_attribute_type_t;
312 \sim /* The accuracy functions we have available right now */
         typedef enum {
              MAJORITY WINS,
              SPECIFIC ACCURACY.
              AT_LEAST_N,
         } junta accuracy functions_t;
314 \sim /* The security levels we export for now */
         typedef enum {
              STRICT,
              LAX,
              NONE,
         } junta_security_levels_t;
```

## Figure 3b

```
316 \longrightarrow /* Specify the parameters for accuracy */
          typedef struct {
               junta accuracy functions_t function_type;
               union {
                    struct {
                         int num_voters;
                    } majority_wins;
                    struct {
                         float probability;
                         float confidence;
                    } specific accuracy;
                    struct {
                         int n;
                    } at least_n;
               } u;
          } junta_accuracy_s;
318 ~ /* Specify the security parameters */
          typedef struct {
               junta security levels_t security_level;
          } junta_security_s;
320 \square /* All the attributes */
          typedef union {
               junta_accuracy_s accuracy;
               junta security_s security;
               int timeout;
               int maximum_time;
               float cost_per_task;
               float max_cost;
          } junta_attribute_s;
 322 \times /* Set some attributes on it */
          junta_return_t junta_set_attributes(junta_id problem_id,
                                             junta attribute type t attribute type,
                                             junta_attribute_s attributes);
 char **text;
               void **speech_data;
          } junta_input_data_s;
 int *numbers;
                char *text;
          } junta_output_data_s;
 328 \to /* Supply the input values */
          junta_return_t junta_input(junta_id problem_id,
                            int input_id,
                           junta_input_data_s input);
 330 \( \sigma /* \) Set the allowed range of output values */
          junta_return_t junta_set_output_values(junta_id problem_id,
                                                  junta_output_data_s output);
 332 \square /* Get the output for the input set specified. */
          junta_return_t junta_get_output(junta_id problem_id,
                                           int input id,
                                           junta_output_data_s output);
```

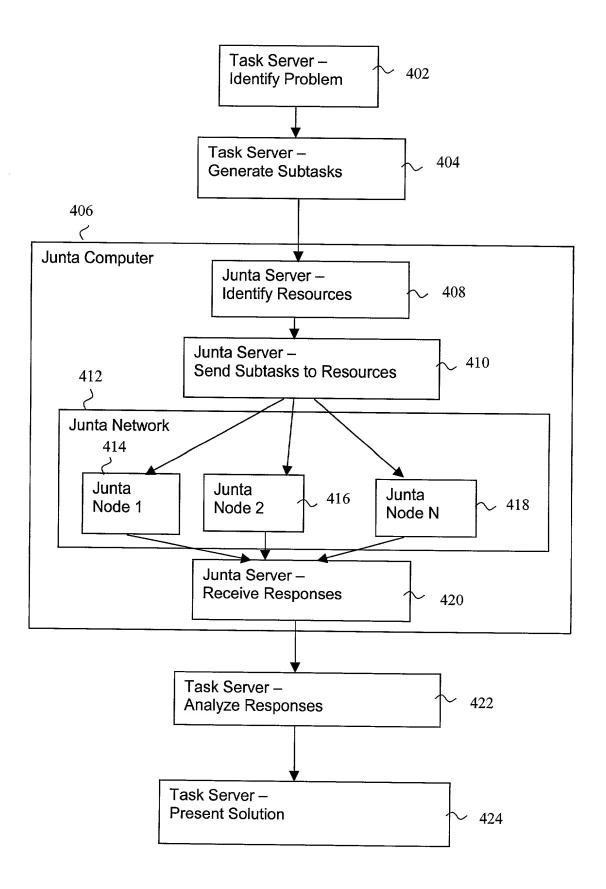


Figure 4